(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 10 March 2005 (10.03.2005)

PCT

(10) International Publication Number WO 2005/021922 A3

- (51) International Patent Classification?: 37/00, 55/00
- F16L 35/00,
- (21) International Application Number:

PCT/US2004/028438

(22) International Filing Date:

1 September 2004 (01.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/499,528

2 September 2003 (02.09.2003) US

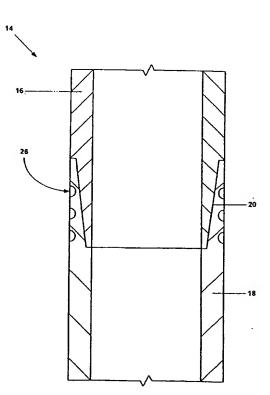
- (71) Applicant (for all designated States except US): EN-VENTURE GLOBAL TECHNOLOGY, LLC [US/US]; 16200 A Park Row, Houston, TX 77084 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): COSTA, Scott

[US/US]; 2011 Willow Point, Kingwood, TX 77330 (US). MENCHACA, Jose [US/US]; 9800 Pagewood Lane, Number 210, Houston, TX 77042 (US).

- (74) Agent: HAYNES AND BOONE LLP; 901 Main Street, Suite 3100, Haynes and Boone, LLP, Dallas, Texas 75202 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: THREADED CONNECTION FOR EXPANDABLE TUBULARS



(57) Abstract: A threaded connection (20) for expandable tubulars (16), (18) with at least one stress concentrator (26).

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW). Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 19 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

r		PC	ZT/US04/28438		
A. CLASSIFICATION OF SUBJECT MATTER					
	IPC(7) : F16L 35/00 37/00 55/00				
US CL : 285/382, 333, 390, 114, 29/507,522.1,523					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum do	cumentation searched (classification system followed	by classification symbols)			
U.S. : 2	U.S. : 285/382, 333, 390, 114, 29/507,522.1,523				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
Electronic data case constitues during the international search (maine of data case and, where practicable, search terms used)					
·					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	ppropriate, of the relevant	passages Relevant to claim	No.	
X	WIPO 200201102 A1 (Coulon et al.) 03 January 2002 (03-01-02), see expanded threaded 1,3-7			5,27-	
	members 11,12 and groove 21 or 14 which will inherently act as a stress concentrator as 42				
Y	applies in the present invention except in claims 18 and 37-39 where no stress concentrator				
	is claimed. 8-12,21,26				
Y	US 6.390,720 A (LeBegue et al.) 21 May 2002 (21-05-02), see column 2, lines 55-65 and 8-12,21 and 26				
	stress relief grooves 36 shown internally in fig. 2 and noted to be either single, plural or				
	helical.		ţ		
X	US 5,667,252 A (Schafer et al) 16 September 1997 (16-09-97), see fig. 3 which shows tube 42				
	200 expanded to tube 202.				
			A Fe		
			ĺ		
			i		
			İ		
				- 1	
				l	
Purther	documents are listed in the continuation of Box C.	See patent fami	ly annex.		
• s	pecial categories of cited documents:		blished after the international filing date or pr		
"A" document	defining the general state of the art which is not considered to be	date and not in con	affect with the application but cited to undersu cory underlying the invention	and	
	lar relevance		ory disserting on the cases		
"E" carlier an	plication or patent published on or after the international filing		niar relevance; the claimed invention cannot		
date	passons of pacts produce on at arts of bactmentim filling		or cannot be considered to involve an inventiv ament is taken alone	ີ	
*1 * downsom	which may throw doubts on priority claim(s) or which is cited to	"Y" document of partic			
	the publication date of another citation or other special reason (as		atar relevance; the claimed invention cannot we an inventive step when the document is	pe	
specified)		combined with one	or more other such documents, such combin	ation	
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a	person skilled in the art		
	•	"&" document member	of the same patent family	1	
"P" document published prior to the international filing date but later than the					
Date of the actual completion of the international search Date of mailing of the international search report					
10 1					
19 January 2005 (19.01.2005) Name and mailing address of the ISA/US Authorized office All Colors					
// //					
Commissioner for Patents Commissioner for Patents					
Con	I Stop PCT, Attn: ISA/US unissioner for Patents	Pric K Nicholson		}	
P.O	unissioner for Patents Box 1450				
P.O Ale	unissioner for Patents	Telephone No. 703-308-	1113		